



## CONGRATULATIONS

and welcome to the world of computerized radio scanning. The Uniden® Bearcat® 50XL is the result of years of research and development, and incorporates many unique, state-of-the-art design concepts. Microelectronics allows so many sophisticated features to be included in such a small, stylish unit. The Uniden® Bearcat® 50XL uses the most recent technological advances to satisfy the highest performance standards that can be achieved in a hand held unit. The custom integrated circuits, microprocessor, liquid crystal display, and other components have been designed to give the Uniden® Bearcat® 50XL high quality performance while maintaining low battery drain.

Uniden, one of the world leaders in radio scanners, has designed and manufactured this unit to give you years of trouble free use. We are sure you will be proud to own the Uniden® Bearcat® 50XL, and to insure that you get the most out of all the features, please read this operating guide completely before using your scanner. If you have any questions or comments about the Uniden® Bearcat® 50XL please write the Uniden Customer Service Center listed on the back of this guide. Be sure to include your model and serial number.

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**All Uniden® Bearcat® radio scanners are certified in accordance with FCC Rules and Regulations Part 15 as of the date of manufacture.**

### WARNING

UNIDEN DOES **NOT** REPRESENT THIS UNIT TO BE **WATER-PROOFED**. TO REDUCE THE RISK OF ELECTRICAL SHOCK, FIRE HAZARD, OR DAMAGE TO THE UNIT, DO NOT EXPOSE TO RAIN OR MOISTURE.

For future reference, write in the model number and serial number below. You will find them on the back of the unit.

Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_

Purchased from: \_\_\_\_\_ Date \_\_\_\_\_

## TECHNICAL SPECIFICATIONS

<b>Size:</b>	2-5/8"W x 1-3/8"D x 7"H
<b>Weight:</b>	10.5 oz.
<b>Cabinet:</b>	High impact ABS
<b>Power:</b>	7.5 VDC provided by 5 AA size standard batteries (not included), optional NiCad rechargeable battery pack or AC Adaptor AD 100U.
<b>Antenna:</b>	Custom designed flexible antenna with BNC connector.
<b>RF Sensitivity:</b>	Low band 0.4 uv for 12 dB SINAD High band 0.5 uv for 12 dB SINAD UHF band 0.7 uv for 12 dB SINAD (typical midband, from 50 ohm source, E.I.A. method)
<b>IF Selectivity:</b>	-55 dB @ $\pm 25$ kHz
<b>Audio Output:</b>	400 Milliwatts into 8 ohms
<b>Frequency Coverage:</b>	29-29.7 MHz-10 Meter Amateur Band 29.7-50 MHz-Low Band 50- 54 MHz-6 Meter Amateur Band 136-144 MHz-Military Land Mobile 144-148 MHz-2 Meter Amateur Band 148-174 MHz-High Band 406-420 MHz-Federal Gov't. Mobile 420-450 MHz-70cm Amateur Band 450-470 MHz-UHF Band 470-512 MHz-"T" Band
<b>Scan Speed:</b>	15 channels per second
<b>Channel Capacity:</b>	10
<b>Delay:</b>	3 seconds (automatic)
<b>Lockout:</b>	Any channel(s) (selectable)
<b>Display:</b>	Liquid Crystal
<b>Accessories:</b>	Belt Clip
<b>Options:</b>	Rechargeable battery pack with battery charger, vehicle power cord, earphone, carrying case

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

## UNPACKING YOUR UNIT

Carefully remove the unit from the shipping carton and check the contents against the following list:

- Uniden® Bearcat® 50XL
- Belt Clip
- Flexible Antenna
- Battery Holder (for non rechargeable battery)
- Operating Guide (read it and save)

If any of these items are missing or if there are signs of physical damage, DO NOT attempt to operate the unit. Notify your dealer or shipping carrier immediately.

*NOTE: Keep the shipping carton and packing materials, as well as all the printed material. This carton serves as an excellent method to transport your new scanner for service or any other reason.*

## BATTERY AND ANTENNA INSTALLATION

Please read the following instructions carefully and completely before operating your scanner.

### STANDARD NON-RECHARGEABLE BATTERIES

Open battery compartment by pressing on battery door where indicated and slide off. Install 5, AA size non-rechargeable batteries in the separate holder. Be sure that the + and - terminals of the batteries are properly installed. Improper installation may result in damage to your unit. Replace the battery compartment door by sliding it back into place.

*NOTE: Do not use RECHARGEABLE BATTERIES! Your scanner WILL NOT WORK if you install AA size RECHARGEABLE BATTERIES. Use only the Uniden model BP 50 or BP 55 rechargeable battery pack.*

*CAUTION: When charging, be sure to turn power switch off. Use only UNIDEN Model AD-100U battery charger. Charging time with AD-100U is approximately as below.*

*Battery pack BP-50 : 7 - 8 hours*

*Battery pack BP-55 : 15 - 16 hours*

*Do not charge NiCad battery for more than above standard time, as otherwise it will create damage or overheating of battery.*

### RECHARGEABLE BATTERY PACK

You can purchase an optional NiCad battery pack from your local dealer or from Uniden. The rechargeable battery pack fits into the battery compartment and also comes with a battery charger. You can use your Uniden® Bearcat® 50XL for years without ever having to buy batteries.

**WARNING: DO NOT ATTEMPT TO RECHARGE NON-RECHARGEABLE BATTERIES!** Before attempting to recharge batteries, open battery compartment and check the type of batteries installed. Recharge only the Nickel Cadmium rechargeable battery pack designed for this unit. Any other rechargeable battery will not work properly.

*External power jack: Use only AD-100U AC adaptor, 12 Volt, polarity or PS-001 external power plug.*

*Any other AC adaptor or external power plug having over voltage or reversed polarity, may create overheating or damage to circuitry.*

## BATTERY REPLACEMENT

Whenever you replace your batteries, you must turn the radio off and immediately replace them with new batteries to avoid memory loss.

## INSTALLING THE ANTENNA

Insert the connector end of the flexible antenna provided into the receptacle on top of the unit and finger tighten.

An external antenna may be helpful in fringe areas. Always use 50-70 ohm coaxial cable for lead-in. For lengths in excess of 50 feet, RG8AU low-loss foam dielectric coax is recommended. Your scanner is equipped with a standard BNC connector. You may need an adapter (optional) or other type of mating plug for proper connection.

## CONTROLS AND FUNCTIONS

### TOP PANEL FEATURES (Figure 1)

1. **On/Off Volume Control:** Top mounted rotary control turns the receiver on and off, and adjusts the volume.
2. **Squelch:** Top mounted rotary control is used to silence background noise. The radio should be squelched (silent) when no signal is present. Turn the control clockwise to receive more distant (weaker) signals.
3. **Antenna Connector:** BNC connector for custom flexible antenna.
4. **Earphone Jack:** Connect earphone for private listening. When earphone is connected, main speaker is disconnected.

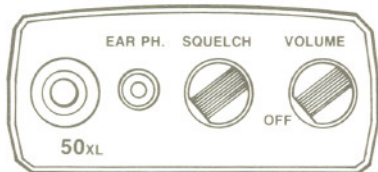


Figure 1

## FRONT PANEL FEATURES (Figure 2)

1. **Liquid Crystal Display:** The LCD shows channel number, frequency (by displaying each digit consecutively), and indicates the "LOCKOUT" function.
2. **Keypad Lock:** Locks the keypad to avoid accidental entry or misprogramming.

- SCAN** Press to start scanning all active channels.
- MANUAL** Stops the scan function, steps scanner through channels in sequence, and allows direct channel access.
- LOCKOUT** Locks out the reception of signals on any selected channels while scanning only.
- REVIEW** Press to see the frequency programmed in each channel. All digits of the frequency will be shown in sequence.
- 1** Numeric keys **0** through **9** and decimal point **.** are used to program frequencies. **E** enters frequencies into any of the ten channels.

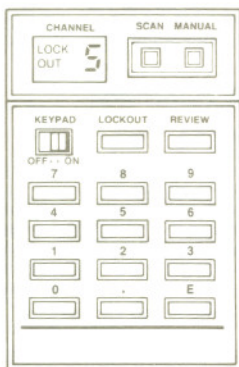


Figure 2

## LIQUID CRYSTAL DISPLAY

The Uniden® Bearcat® 50XL is equipped with a custom designed liquid crystal display to indicate channel number, frequency and lockout mode. All LCDs have a preferred viewing angle where the display contrast is maximum. The best viewing angle depends on design consideration, temperature and battery condition. Optimum viewing of the Uniden® Bearcat® 50XL is achieved by holding the unit at about 45 degrees. This also provides the best position for using the keypad.

**CAUTION:** Because of inherent limitations, liquid crystal displays should not be subject to extremes of temperature or humidity. If the unit is exposed to temperatures below  $-20^{\circ}\text{C}$  ( $-5^{\circ}\text{F}$ ) or above  $+60^{\circ}\text{C}$  ( $+140^{\circ}\text{F}$ ), the display may temporarily cease to function properly, and in some cases permanent damage may result. It is, therefore, recommended that the radio not be subjected to extreme conditions, such as a closed automobile in direct sunlight or continuous sub-zero temperatures.

## OPERATION

Now that you are familiar with the controls and their functions, you are ready to use your scanner. The following instructions illustrate the operation of your Uniden® Bearcat® 50XL. Please read each section thoroughly before attempting to program your scanner. Each section explains a function and then shows the key strokes involved in that function.

**NOTE:** If you know the exact frequencies you wish to scan, proceed with the "PROGRAMING" section. If you do not know the frequencies (i.e., police, fire, weather, etc.) you wish to scan, check with your dealer. Uniden also makes frequencies available in its Betty Bearcat Frequency Directory and Local Frequency List. See the order forms packed with your unit.

### KEYPAD LOCK

Located on the front of the unit is the keypad lock switch. This switch turns the keypad on or off. Whenever you operate your scanner, this switch must be in the "ON" position in order for the keypad to work. After all programing and operations are complete, turn this switch to the "OFF" position to avoid any misprograming or accidental entry.

### PROGRAMING YOUR SCANNER

Turn the unit on and Press **MANUAL** key to remove scan mode, then press the **1** key followed by the **MANUAL** key. This will bring the scanner to channel 1 in the manual mode. Press the number keys for the desired frequency. Remember to press the **.** key whenever there is a decimal point in the frequency. A decimal point is indicated in the frequency as a "–". As each key is pressed, the display will show that digit. If you forget the previous digits pressed, press the **REVIEW** key to review the frequency at any time to confirm that it is correct. Press the **E** key to enter that number into channel 1. Press the **MANUAL** key to advance to channel 2.

1. To program 162.55 into channel 1:



(Final zeros to the right of the decimal point will be entered automatically.)





The display will show the frequency one digit at a time and then show channel 1.

1-6-2---5-5-0--1  
CHANNEL

2. To program 471.2375 into channel 5:

5      MANUAL  
4   7   1   .   2   3   7   5   E

(Rounded off to 3 places)

REVIEW

The display will show:

4-7-1---2-3-7--5  
CHANNEL

If you attempt to enter a frequency outside the range of the Uniden® Bearcat® 50XL, the display will show an "E". If this ever happens, simply enter the correct number. You may omit the decimal point when entering frequencies in the VHF high band (136-174 MHz) and UHF (406-512 MHz.)

The Uniden® Bearcat® 50XL has been designed to automatically enter trailing zeros on these bands. On *LOW BAND (29-54 MHz)*, YOU MUST PRESS THE DECIMAL POINT or an "E" will appear.

When first turned on after purchase or after batteries have been removed, a test frequency will be found in each of the channels. When you program your own frequencies, these test frequencies will be erased until power is completely lost.

## SQUELCH

The squelch function controls the sensitivity of the receiver. It adjusts the level at which the scan mode will stop to receive a transmission on any frequency. Rotate the "SQUELCH" control clockwise until you hear background noise and then turn it back counterclockwise until the noise is silenced. This will set the scanner to receive any transmission above the level of background noise. You can adjust the squelch level to pick up more distant signals by turning it clockwise, or less distant signals by turning it back.

## MANUAL CHANNEL SELECTION

If you wish to select a channel manually, press and release the **MANUAL** key until that channel number appears in the display. You can also press the channel number, then the **MANUAL** key to directly access that channel.



## LOCKOUT

There may be times when you wish to skip over a channel that you have programmed into your Uniden® Bearcat® 50XL. Any number of channels can be "Locked Out" so that the scanner skips over them. To Lock Out a channel, select the channel number you wish to skip over. Press the **LOCKOUT** key. The word "LOCK OUT" will appear in the display whenever that channel number appears. To cancel the lock out mode simply press the **LOCKOUT** key when that channel number appears.



The display will show:



## SCAN

To scan the channels programmed in memory, press the **SCAN** key. The channels will automatically scan at the rate of approximately 15 channels per second. As the unit scans, the channel digits in the display will advance rapidly, indicating the scanning mode. In order to stop the scan mode, a transmission must be present on one of the programmed frequencies. The squelch control must also be set so that the transmission will "break squelch" and stop the scan. You can also stop scanning by pressing the **MANUAL** key.

## SCAN DELAY

The Uniden® Bearcat® 50XL is automatically programmed to pause for about 3 seconds after a transmission ends on any channel. This is useful in preventing the continuation of scanning when there is a slight pause in transmission. It is also useful when both sides of a conversation are occurring on the same channel. This automatic delay is built into every channel and cannot be changed.

## ERROR MESSAGE

To inform the user anytime an out-of-band frequency is stored in memory, the BC 50XL automatically displays "E" in this event. The condition may arise when the user presses ENTER with an invalid number in the display. The user should simply enter an in-band frequency (see programming section) to clear the ERROR indication.

## BATTERY LOW INDICATION

Your scanner has a unique power-saving battery low indicator. When a special circuit detects that the batteries are getting low, a beep will sound if the unit is on. The beep tone will continue every 15 seconds until the batteries are completely dead. The memory will be maintained until batteries are dead.

*WARNING: When you first hear the beep tone, you should turn the unit off and immediately replace your batteries (or recharge if NiCad batteries are used) to avoid losing memory. When you replace weak batteries, you must install the new ones immediately to keep the scanner memory. Be sure to read the "Installing Batteries" section of this guide before attempting to replace your batteries.*

## HELPFUL HINTS

The following hints are provided to help you get the most out of your new scanner. By reading this entire guide, including this section, you will better understand and enjoy your new Uniden® Bearcat® 50XL.

1. Always remember to press the enter key when programing a frequency. If the enter key is not pressed the frequency will not be programmed into that channel. It is a good idea to press the review key after entering a frequency to confirm that the correct number was entered.
2. If you ever have to ship the unit, be sure to remove the antenna and place it and the unit in the original styrofoam inner packing and box. One of the most common causes of damage to electronic products is improper packing when shipping.
3. Remember that the liquid crystal display is subject to permanent damage if it is exposed to extremes in temperature or humidity. Take extra care with your scanner in the winter and on sunny, summer days.
4. The Uniden® Bearcat® 50XL never sleeps—its memory is always active even though the power is turned off. Battery drain in the off mode is almost as low as the discharge rate of the batteries alone. As long as you observe the battery low indicator and act accordingly, you shouldn't have any problem with memory loss.
5. Receiver sensitivity is affected by the location of the antenna and the environment that the unit is used in. Best reception will occur when the unit is placed on a level metal surface with the antenna pointing up. Placing the unit close to a window will also provide better reception.
6. Receivers, such as the Uniden® Bearcat® 50XL, which have broad tuning ranges are subject to interference from internally generated signals ("Birdies") on a few receiver frequencies. On these frequencies, reception of external signals may be impaired. Nothing is wrong with your scanner if this kind of interference occurs, unless it happens on a large number of frequencies.

## TROUBLE-SHOOTING

If your Uniden® Bearcat® 50XL is not performing up to your expectations, please try these simple steps. If you still cannot get satisfactory results after reading this guide thoroughly and following the trouble-shooting steps, you may need to send your unit in for service.

TROUBLE	CHECK
Unit will not turn on/no power.	<ol style="list-style-type: none"><li>1. Batteries are not correctly installed—check and make sure the + and - terminals are properly aligned.</li><li>2. Batteries are dead—replace with new ones.</li><li>3. Power is off—turn the volume control on.</li></ol>
No reception/poor reception.	<ol style="list-style-type: none"><li>1. Antenna is not correctly installed—check connector.</li><li>2. Environment is not suitable for scanner—relocate unit and try again.</li><li>3. Frequencies are not properly programmed—check and reprogram.</li><li>4. Batteries are weak or dead—replace with new ones.</li></ol>
"E" appears in display.	<ol style="list-style-type: none"><li>1. Programing error—check frequency and try again.</li></ol>
Beep tone sounds every 15 seconds or "P" & "L" appear in display.	<ol style="list-style-type: none"><li>1. Batteries are low in power—replace with new ones.</li></ol>
Keypad will not work/cannot program.	<ol style="list-style-type: none"><li>1. Keypad lock is off—check and turn on.</li></ol>

If you determine that service is necessary, remove the antenna from the unit (do not remove the batteries) and make sure it is turned off. Pack the scanner in the original packing material and carton. Send it along with a brief, concise description of the problem, your name, address, phone number and a copy of your purchase receipt to the address listed in the warranty.

## OPTIONAL ACCESSORIES

The following accessories are available for use with your BC 50XL. Check with your local dealer or the Uniden Customer Service Center.

**Model BP 50C** rechargeable battery pack and battery charger. A custom made NiCad battery pack will eliminate the need for additional batteries. Simply plug in the charger overnight for full power the next day.

**Model BP 50** rechargeable battery pack replacement. Charger not included.

**Model BP 55** rechargeable battery pack replacement. Charger not included.

**Model AD 100U** battery charger only.

**Model EP 001** earphone for private listening.

**Model PS 001** vehicle power cord. Plugs into vehicle cigarette lighter socket to power your BC 50XL.

**Model VC 001** carrying case. Leather-like carrying case holds your BC 50XL safely on your belt. Controls are accessible and the unit can be removed and returned easily.

# FREQUENCY ALLOCATIONS

Because of the short-range nature of VHF and UHF FM communications, frequencies allocated to services in one geographical location will not be heard more than 25-50 miles distance (an exception is "skip", when signals bounce back to earth from the ionosphere). For this reason, a separate frequency directory must be compiled for each monitoring area.

Most standard frequency separations and classifications are regulated in the United States by the FCC.

Block allocations...and even some discrete frequencies...covered by your scanner are shown below. These are not necessarily active in your area.

## ABBREVIATIONS

Police	P.D.	43 22 - 43 68	Mob. Tel., Page
State Police	St. P.D.	43 70 - 44 60	Trucks, Bus.
Fire Department	F.D.	44 62 - 45 06	St. P.D., Fors. Cons.
Special Emergency	Sp. Emer.	45 08 - 45 66	P.D.
Highway Maintenance	Hwy.	45 68 - 46 04	P.D., Hwy., Sp. Emer.
Forestry-Conservation	Fors. Cons.	46 06 - 46 50	F.D.
Government	Govt.	46 52 - 46 58	P.D., L. Govt.
Local Government	L. Govt.	46 60 - 47 00	Govt.
Business Radio	Bus.	47 02 - 47 40	St. Hwy.
Manufacturers	Mfg.	47 42 -	Red Cross
Broadcast Remote	BC. R.	47 44 - 47 68	Sp. Ind., Sp. Emer.
Mobile Telephone	Mob. Tel.	47 70 - 48 54	Power
Radio Paging	Page.	48 56 - 49 58	L. Govt., Pet.
Special Industrial	Sp. Ind.	49 60 - 50 00	Govt.
Motion Picture	Mot. P.	50 00 - 54 00	HAM

## 136 - 174 MHz BAND

Automobile Emergency	Auto Emer.	136 000 - 144 000	Govt.
Red Cross		146 000 - 148 000	HAM
U. S. Weather Bureau	U.S.W.B.	148 010	MARS
U. S. Coastal & Geodetic Survey	U.S.C.G.S.	148 150	CAP
National Parks	Nat. Pk.	148 155 - 148 250	MIL
Indian Affairs		148 290 - 150 750	USN
Bureau of Reclamation	Bur. Recl.	150 815 - 150 995	Bus.
Department of Agriculture & Forestry	Agr. & For.	151 010 - 151 130	Hwy.
Land Transportation	Land Tr.	151 145 - 151 475	Fors. Cons.
		151 505 - 151 595	Sp. Ind.
		151 625 - 151 955	Bus.
		151 985 - 152 240	Mob. Tel. (RCC)
		152 270 - 152 450	Taxi
		152 480 - 152 840	Mob. Tel & Page
		152 870 - 153 020	Sp. Ind., Mot. P.
		153 050 - 153 440	Pet., For. Prod.
		153 470 - 153 710	Power
		153 740 - 154 115	F.D., L. Govt.
		154 130 - 154 445	F.D.
		154 450 - 154 600	Sp. Ind., Pet., Bus.
		154 655 - 155 145	P.D., L. Govt., St. P.D.
		155 160 - 155 400	Sp. Emer., P.D.
		156 045 - 156 240	L. Govt., Hwy., P.D.
		156 275 - 157 425	Marine
		157 456 - 157 500	Auto Emer.
		157 530 - 157 710	Taxi
		157 740 - 158 100	Mob. Tel. & Page
		158 130 - 158 460	Power, For. Prod., Pet.
		158 490 - 158 700	Mob. Tel. (RCC)
		158 730 - 158 970	P.D., L. Govt.
		158 985 - 159 210	P.D., Hwy.
		159 225 - 159 465	Fors. Cons.
		159 510 - 160 200	Trucks
		160 215 - 161 565	R.R.
		161 600 - 162 000	Marine
		162 026 - 162 175	Bur. Recl.
		162 400	U.S.W.B.
		162 475	U.S.W.B.
		162 550	U.S.W.B.
		163 125	Indian Affairs
		163 175	Bur. Recl.

## 29 - 54 MHz BAND

29 00 - 29 70	10HAM		
29 70 - 29 80	For. Prod.		
29 80 - 30 00	Aero		
30 01 - 30 56	Govt.		
30 56 - 30 62	Sp. Ind.		
30 66 - 31 24	Ind. (Pet., Fors. Cons. Bus., For. Prod.)		
31 26 - 31 98	Sp. Ind., Fors. Cons.		
32 00 - 33 00	Govt.		
33 02 - 33 16	Hwy. Sp. Emer.		
33 18 - 33 38	Bus.		
33 42 - 33 98	Pet.		
34 00 - 35 00	F.D.		
35 02 - 35 18	Govt.		
35 22 - 35 66	Bus.		
35 70 - 35 73	Mob. Tel. & Page		
35 74 - 35 98	Bus.		
36 00 - 37 00	Sp. Ind. & Bus.		
37 02 - 37 44	Govt.		
37 45 - 37 86	F.D., P.D. & L. Govt.		
37 90 - 37 98	Power		
38 00 - 39 00	Hwy. & Sp. Emer.		
39 02 - 39 98	Govt.		
40 00 - 42 00	P.D., L. Govt.		
42 02 - 42 94	Govt.		
42 96 - 43 18	St. P.D.		
	Sp. Ind. & Bus.		

## Frequency Allocations (Cont.)

163.275'	U.S.W.B
163.388 - 163.538	MIL
163.825 - 163.975	Govt.
164.025 - 164.075	U.S.C.G.S.
164.175 - 165.188	Fur. Recl., Nat. Pk., Govt., Agr. & For.
169.300	F.A.A.
169.450 - 169.725	Nat. Pk., Ind., Data
170.150	F.D., BC, R.
170.200 - 170.220	U.S.C.G.S.
170.225 - 170.325	Ind., Land Tr.
170.425 - 170.575	Fors. Cons.
170.975 - 171.250	Govt., Sp. Ind. & Land Tr.
171.388 - 172.725	Bur. Recl., Fors. Cons., Ind., Dept. Ag. & For., Govt.
172.775	Nat. Pk.
173.025	U.S.W.B.
173.075	U.S.C.G.S.
173.204 - 173.375	Press Relay, Mot. P., Pet., Bur. Recl.

### 406 - 512 MHz BAND

406.000 - 420.000	Govt.
420.000 - 450.000	HAM
450.050 - 450.950	Remote Br. Util.
451.000 - 451.150	For. Prod., Pet., Power., Tel. Maint.
451.775 - 451.975	Spec. Ind.
452.000 - 452.500	Taxi, Motor Carrier & R.R.
452.525 - 452.600	Auto Club
452.625 - 452.975	BC, R., Motor Carrier & R.R.
453.000 - 453.975	L. Govt., P.D., & F.D.
454.000 - 454.975	Mob. Tel. & Page
455.000 - 455.975	Remote Br. P.D., F.D.
456.000 - 458.975	Ind., Land Tr.
459.000 - 459.975	Mob. Tel., Page, & Domestic Public P.D., F.D.
460.000 - 460.625	Bus.
460.650 - 462.175	Taxi
462.000 - 462.450	C.B.
462.550 - 462.725	Bus.
462.750 - 462.975	Medical
463.000 - 463.175	Bus.
463.200 - 464.975	P.D., F.D.
465.000 - 467.500	Sp. Ind., & Land Tr.
467.5375 - 467.7375	C.B.
467.7375 - 467.925	Pub. Safety, Ind., & Land Tr.

In some large metropolitan areas, 1 or 2 channels of the "TV Band" (470 Mhz to 512 Mhz) are used for communication purposes. Each TV station (channels 14 through 20) utilizes 6 Mhz:

470 - 476 TV	Channel 14
476 - 482 TV	Channel 15
482 - 488 TV	Channel 16
488 - 494 TV	Channel 17
494 - 500 TV	Channel 18
500 - 506 TV	Channel 19
506 - 512 TV	Channel 20

Where these frequencies are assigned for communication purposes, in lieu of a TV station, the 6 Mhz segment is allocated as shown her for channel 14 (470 - 476 Mhz).

470.0125 - 470.2875	Domestic Public (Base, Mob.) Public Safety
470.3125 - 471.1375	Reserve Pool A
471.1625 - 471.2875	Pwr., Tel. Maint.
471.3125 - 471.4125	P.D., Spec. Ind.
471.4375 - 471.6375	Reserve Pool B
471.6625 - 471.7875	Bus.
471.8125 - 472.3375	Taxi
472.3625 - 472.4375	R.R., Motor
472.4675 - 472.7875	Carrier, Auto Emer.
472.8125 - 472.9875	Pet., For. Prod., Mfg.
473.0125 - 473.2875	Domestic Public
473.3125 - 474.1375	Public Safety
474.1625 - 474.2875	Reserve Pool A
474.3125 - 474.4125	Power, Tel., Maint.
474.4375 - 474.6375	Spec. Ind. (Mobile)
474.6625 - 474.7875	Reserve Pool B
474.8125 - 475.3375	Bus.
475.3625 - 475.4375	Taxi
475.4625 - 475.4875	R.R., Motor
475.8125 - 475.9875	Carrier, Auto Emer. Pet., For. Prod., Mfg.

The same allocation pattern is repeated for each of the TV channels 14 through 20. For example, if channel 17 is assigned for communications in our area, "Taxi" would be 490.3625 to 490.4375 and 493.3625 to 493.4375 (corresponding to 472.3625 to 472.4375 and 475.3625 to 475.4375 above). Note that in the example, we added three TV channels (18 MHz to the channel 14 frequencies).





**Santronic**

AGENCIES PTY. LTD.

13 GAREMA CIRCUIT, KINGSGROVE  
PHONE 758 1522, TELEX AA73170  
FAX 7502722  
P.O. Box 12, Kingsgrove, NSW 2208

MELBOURNE: 446-448 BELL STREET  
EAST PRESTON VIC 3072  
PHONE: (03) 484 0373

BRISBANE: 3/12 BANDALL ST  
SLACKS CREEK, QLD 4127  
PHONE 07 290 1188

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